US009891207B2

(12) **United States Patent**
McCord et al.

(10) **Patent No.: US 9,891,207 B2**
(45) **Date of Patent: Feb. 13, 2018**

(54) **PAPER MICROFLUIDIC DEVICES FOR DETECTION OF IMPROVISED EXPLOSIVES**

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 577 days.

(21) Appl. No.: **14/216,869**

(22) Filed: **Mar. 17, 2014**

(65) **Prior Publication Data**

US 2016/0139102 A1 May 19, 2016

Related U.S. Application Data

(60) Provisional application No. 61/794,955, filed on Mar. 15, 2013.

(51) **Int. Cl.**

G01N 21/00	(2006.01)
G01N 21/65	(2006.01)
G01N 33/22	(2006.01)
B01L 3/00	(2006.01)

(52) **U.S. Cl.**

CPC ***G01N 33/227*** (2013.01); ***B01L 3/5023*** (2013.01); ***B01L 3/5027*** (2013.01); *B01L 2200/10* (2013.01); *B01L 2200/12* (2013.01); *B01L 2300/0825* (2013.01); *B01L 2300/0864* (2013.01); *B01L 2300/0887* (2013.01); *B01L 2300/126* (2013.01); *B01L 2300/165* (2013.01)

(58) **Field of Classification Search**

CPC G01N 21/00; G01N 21/65

See application file for complete search history.

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(57) **ABSTRACT**

Paper microfluidic devices for testing for explosives are provided, along with methods of fabricating and using the same. One or more channels are formed on a paper substrate, and a test spot is formed in at least one of the channels. The channels can be hydrophobic. A test reagent is provided in the test spot and tests for explosives.

14 Claims, 10 Drawing Sheets